Name: Erifeoluwa Jamgbadi

## Answers to/solutions of the single exercises in the assignment

Created a function like the loadStepsByHour, except these functions load the steps by day. I selected the day data from the database and used that to create the chart. The below image can be found in GalleryViewModel.java.

Next in function below which creates the chart, I called the function above and assigned it to a variable. The below code can be found in DayFragment.java

```
public Cartesian createColumnChart(){
    //***** Read data from SQLiteDatabase *********/
    // TODO 1: Get the map with hours and number of steps for today
    // from the database and initialize it to variable stepsByHour
    // hint: use the current_time variable for today's date

stepsByDay = GalleryViewModel.loadStepsByDay(getContext(), current_time);

// TODO 2: Creating a new map that contains date from 0 to 23 and
    // number of steps during each hour set to 0

TreeMap<Integer,Integer> graph_map = new TreeMap<~>();
    for(int i = 0; i < 24; i++){
        graph_map.put(i, 0);
    }

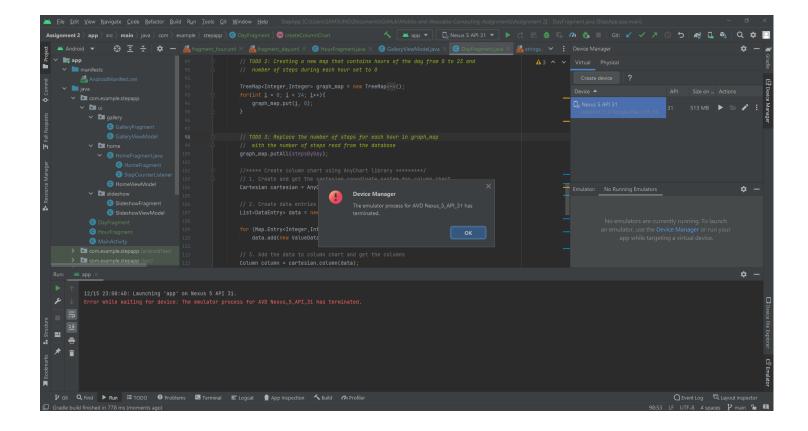
// TODO 3: Replace the number of steps for each day in graph_map
    // with the number of steps read from the database
    graph_map.putAll(stepsByDay);
```

I also created a fragment\_day.xml file, which has the code for the visual of the chart on the screen. I gave the chart an id dayBarChart.

```
cyml version="1.8" encoding="utf-8"?>
candroidx.constraintlayout.widget.Constraintlayout xmlns:android="http://schemas.android.com/apk/res-auto"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="nthp://schemas.android.com/apk/res-auto"
    xmlns:tools="nthp://schemas.android.com/apk/res-auto"
    xmlns:tools="nthp://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_width="match_parent"
    android:layout_width="match_parent"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintFop_toTopOf="parent"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    app:layout_constraintStotom_toBottomOf="parent"
    app:layout_constraintStotom_toBottomOf="parent"
    app:layout_constraintStotom_toBottomOf="parent"
    app:layout_constraintStotom_toBottomOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:lay
```

## Screenshots of the App

Couldn't display because my emulator doesn't work for the android studio.



## **URL** for your code repository

https://github.com/erifejams/Mobile-and-Wearable-Computing-Assignments/tree/main/Assignment%202